

Teca-Print



cosmetic edition TPX 301



Industry demands:

In the cosmetic industry today, high quality cosmetics are no longer simply packaged, but rather the container itself embodies the quality of its contents. Because of this the wide range of container designs in the cosmetic industry has become a development of great significance. Quadratic and practical or oval and simple have long been a thing of the past. Creative shapes and noble materials dominate the market. Only the pad printing process can do this diversity of forms justice and make multicolor-printing possible.

Industry challenge:

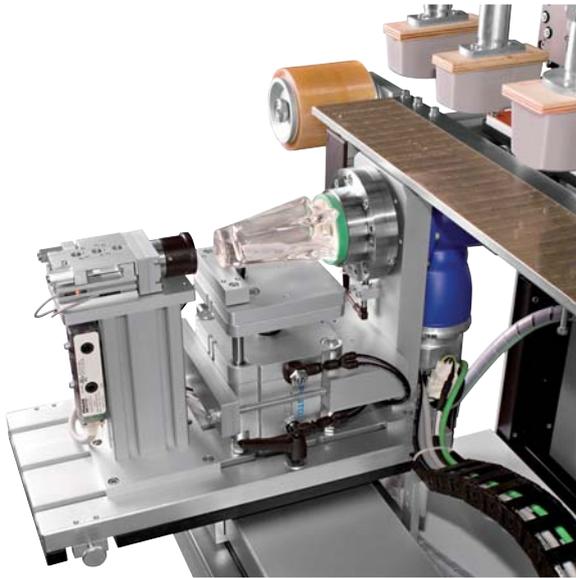
Due to the diversity of container shapes proliferating the cosmetic industry, many print technologies are pushed to their limits. Surfaces are often curved and have depressions or edges. At the same time the cosmetic industry demands high quality, multi-color printing, often with metallic effects.

Industry solution:

Pad printing offers flexibility, even for printing high quality images onto unevenly rounded or oval parts. With the TPX 301 cosmetic edition Pad Printing Machine, Teca-Print has developed a machine configuration, which is especially tailored to meet the needs and wishes of the cosmetic industry.



Pad Printing Technology for the Cosmetic Industry



Details:

The TPX 301 cosmetic edition combines an all-axes, servo motor controlled pad printing machine with a specially developed tooling fixture for the cosmetic industry. The tooling fixture is mounted to an electro-mechanical shuttle table, which allows for comfortable multi-color printing.

The machine, shuttle table and tooling fixture are optimally fine-tuned to each other and are easily controlled via the machine's touch-screen display.

The unique center piece of the TPX 301 cosmetic edition is the tooling fixture, which is especially well-suited to handle the widest spectrum of cosmetic bottle forms or other similar objects.

Tooling fixtures for various bottles can be mounted to the base fixture. The cosmetic bottles are positioned in the fixture with one end, i.e. the bottom or neck of the bottle. Prior to the start of the print cycle, the other end of the cosmetic bottle is firmly held in place with a pneumatic clamping cylinder.

Once clamped, the bottles can be turned in any angle. Thanks to an integrated servo-motor, any desired angle of rotation from 0° to 360° can be programmed for each print position. In this way cosmetic articles can be printed on each side, even if they are asymmetrical, round, or oval shaped.

Printing into depressions is also possible, as well as other uneven surfaces. Even metallic-effect inks can be implemented with this solution. Pad printing adds that special touch to cosmetic products and provides for attractive designs. A workmanlike working environment with the highest possible comfort awaits the operators of this printing machine. Additionally, the following features are also included: An easy-to-use, intuitive, multilingual menu structure, comfortable operation via a touch-screen display, as well as an automatic pad cleaning device.

Technical information:

machine:

- ▶ TPX 301

printing:

- ▶ 1 to 5 colors

drive:

- ▶ electro-mechanical pad printing machine
- ▶ electro-mechanical/pneumatic tooling fixture

control system:

- ▶ PLC with a touch screen

technical components:

- ▶ infinitely variable, programmable tooling fixture
- ▶ control of tooling fixture integrated into the machine display panel
- ▶ tooling fixtures easily modifiable for a wide range of parts



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